	Application No.	Applicant(s)
Notice of Allowability	09/774,285	LIM ET AL.
	Examiner	Art Unit
	Beemnet W Dada	2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *an amendment filed on 10/07/2004*.

2. ☒ The allowed claim(s) is/are *1-6*.

3. ☒ The drawings filed on *22 June 2001* are accepted by the Examiner.

4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☒ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☒ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of
        Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

DETAILED ACTION

1.   Claims 1-6 have been presented for examination, claims 1 has been amended on amendment filed on October 07, 2004. Claim 1 has been amended by an examiner's amendment in this office action. Claims 1-6 have been examined.

EXAMINER'S AMENDMENT

2.   An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Lew Edward V. Macapagal, Reg. No. 55,416 on 03/03/2005.

The application has been amended as follows:

In the claims:

1.   (Currently amended) A method of providing a time stamping service for setting a client's system clock, comprising the steps of:

a) requesting the time stamping service of a time stamp authority server (TSA) by a service requester based on combination of a time stamping request (TimeStampReq) service message set by a random number and a request message for setting the client's system clock;

b) receiving the time stamping service request from said requester by said time stamp authority server (TSA), creating a message authentication code (MAC) based on combination of current time (genTime) information and the time stamping request

(TimeStampReq) service message in response to the requesting, creating a response message by inserting a message certificate (MacInfo) structure including the message certificate ~~(MAC)~~ (MacInfo) into a field of a time stamping response (TimeStampResp) message, and sending the response message;

c) receiving the response message sent from said time stamp authority server by said requester, creating a message authentication code (MAC) by extracting the current time (genTime) information and the time stamping request (TimeStampReq) service message, which are included in the response message, and verifying the integrity of the response message by comparing the message authentication code (MAC) with another message authentication code (MAC) additionally included in the response message;

d) downloading a certificate revocation list from a directory server by said requester, extracting the current time (genTime) information from the response message transmitted from the time stamp authority server (TSA), and verifying the validity of the certificate revocation list (CRL) by comparing the current time (genTime) information with time information set in the certificate revocation list (CRL); and

e) downloading a certificate for an electronic signature of said time stamp authority server from said directory server by said requester, verifying validity of the time stamp response (TimeStampResp) service message, and, if the time stamp response (TimeStampResp) service message is valid; setting the client's system clock using the current time (genTime) information extracted from the response message.

Allowable Subject Matter

3.   Claims 1-6 are allowed.

4.   The following is an examiner's statement of reasons for allowance:

Claims 1-6 are drawn to a time stamping service for setting a client's system clock. The art on record do not teach setting client's system clock after verifying the validity of received time stamp service response, wherein the time stamp response includes a message authentication code created based on combination of current time information and time stamping request service message, wherein the time stamping request service message set by a random number and a request for setting client's system clock, and further the verification includes verifying the message authentication code, verifying validity of certificate revocation list by comparing a current time information with time information set in the certificate revocation list, and further downloading a certificate from a directory server and verifying validity of time stamp response message, and if time stamp response message is valid, setting client's system clock using current time information extracted from the time stamp service response. These steps recited in independent claim 1 render claims 1-6 allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beemnet W Dada whose telephone number is (571) 272-3847. The examiner can normally be reached on Monday - Friday (9:00 am - 5:30 pm).
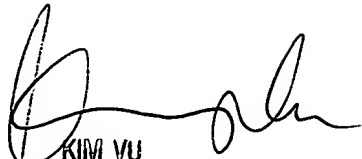
If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kim Y Vu can be reached on (571) 272-3859. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Beemnet Dada

March 3, 2005

KIM VU
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